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APPLICATION NO.	FIL	JING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/522,170	0	1/24/2005	Karl Skjonnemand	MERCK-2965	MERCK-2965 3628	
23599	7590	06/16/2006		EXAMINER		
•		ELANO & BRAN	CHUNG, DAVID Y			
2200 CLARI SUITE 1400		LVD.		ART UNIT	PAPER NUMBER	
ARLINGTO	N, VA 2	2201		2871		

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)						
	Office Astine Commence	10/522,170)	SKJONNEMAND ET AL.						
	Office Action Summary	Examiner		Art Unit						
		David Y. C	_	2871						
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no ever eply within the statut od will apply and will tute, cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) days expire SIX (6) MONTHS from eation to become ABANDONED	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).						
Status										
1)	Responsive to communication(s) filed on									
2a)□	This action is FINAL . 2b)⊠ Th	his action is no	n-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposit	ion of Claims									
5) <u>□</u> 6)⊠	Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-11 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.									
Applicat	ion Papers									
9)[The specification is objected to by the Exami	ner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.										
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)	Replacement drawing sheet(s) including the correction oath or declaration is objected to by the		• • • •	• • •						
Priority (under 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
Attachmen	nt(s)		_							
	ce of References Cited (PTO-892)		4) Interview Summary Paper No(s)/Mail Da							
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date <u>24 January 2005</u> .	08)		atent Application (PTO-152)						

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1-11 rejected under 35 U.S.C. 103(a) as being unpatentable over Hanelt et al. (U.S. 5,827,449).

As to claim 1, Hanelt discloses a film comprising liquid crystalline material having a cholesteric phase with a pitch preferably between 100nm and 400 nm. See column 2, lines 39-49 and column 9, lines 10-40. Hanelt discloses that the axis of the helix can be parallel or perpendicular to the film surface. See column 9, lines 33-35. Hanelt teaches that the cholesteric liquid crystal layer of this type has negative birefringence. See column 1, lines 32-35.

Hanelt does not disclose that the helical pitch is 200 nm or less but discloses an overlapping range of 100 nm to 400 nm. It would have been obvious to one of ordinary skill in the art at the time of invention to make the helical pitch less than 200 nm, since it has been judicially determined that a prima facie case of obviousness exists in cases where the claimed ranges overlap or lie inside ranges disclosed by the prior art. See *In*

re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990).

As to claims 2 and 3, Hanelt does not disclose that the helical pitch is 50 to 200 nm or 55 to 175 nm but discloses an overlapping range of 100 nm to 400 nm. It would have been obvious to one of ordinary skill in the art at the time of invention to make the helical pitch less than 200 nm, since it has been judicially determined that a prima facie case of obviousness exists in cases where the claimed ranges overlap or lie inside ranges disclosed by the prior art. See In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990).

As to claim 4, Hanelt discloses that the cholesteric liquid crystal platelets comprise liquid crystal material that is preferably cross-linked. See column 10, lines 9-29.

As to claims 5-7, Hanelt discloses that the mean alignment of the mesogens in the vicinity of the film surface can be parallel or perpendicular to the film surface or inclined at an angle between 0 and 90 degrees to the film surface. See column 9, lines 32-39. Hanelt teaches that the disclosed film can be used as a compensator by placing it between an LCD cell and polarizer. See column 12, lines 5-15.

Application/Control Number: 10/522,170 Page 4

Art Unit: 2871

As to claims 8-10, Hanelt teaches that the disclosed film can be used as a compensator by placing it between an LCD cell and polarizer. See column 12, lines 5-15.

As to claim 11, Hanelt teaches that the disclosed films are particularly suitable for improving view-angle dependence of twisted nematic (TN) liquid crystal displays.

Art Unit: 2871

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Chung whose telephone number is (571) 272-2288. The examiner can normally be reached Monday-Friday 9:30 am to 6:00 pm.

ANDREW SCHECHTER
PRIMARY EXAMINER

David Chung GAU 2871 06/11/06